Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - IV • EXAMINATION - WINTER • 2014

-			Date: 31-12-2014  Total Marks: 80	
Time		F		
mser	1. At 2. M	ttempt any five questions.  Take suitable assumptions wherever necessary.  Egures to the right indicate full marks.		
Q.1	(a) (b) (c)	Classify Drug interaction and explain them with suitable endescribe the pharmacological actions of histamine.  Differentiate between the following:  i) Somatic and Autonomic Nervous system  ii) Physostigmine and Neostigmine	examples.	06 05 05
Q.2	(a)	Explain the drug action mediated through modification steps/sites of adrenergic transmission.	of various	06
	(b)	Write in brief on the following:  i) Practice to minimize adverse drug effects ii) Mechanisms and types of allergic reactions		05
	(c)	Define receptor and summarize their functions. Classitypes of receptor based on the mechanism of translation activation into functional response.	-	05
Q.3	(a) (b)	Explain Dose response relationship and its importance.  Explain the following terminologies:  i) First order kinetics ii) Plasma half-life iii) Plateau principle of drug accumulation iv) Clearance of a drug v) Apparent volume of distribution		06 05
	(c)	Classify Beta Adrenergic blocking agents and give their u	ses.	05
Q.4	(a) (b)	Classify Biotransformation reactions and explain them in Explain the prominent effects of anticholinergic dru following:  i) CNS ii) Eye		06 05
	(c)	Explain the term Drug antagonism and classify it dependence mechanism involved.	ling on the	05
Q. 5	(a)	Explain the mechanism of action, pharmacological a toxicity of Non-depolarizing Skeletal Muscle relaxants.	ctions and	06
	(b)	Explain plasma protein binding of drugs and its clinically implications with suitable examples.	significant	05
	(c)	Describe in short on the following  i) Prostaglandins  ii) Platelet activating factor		05

Q.6	(a) (b)	Explain in detail Animal Toxicity Studies.  Explain the following with suitable examples:  i) Factors governing the choice of route of administration of the drug	06 05
	(c)	ii) Limitations of the oral route of drug administration Describe the pharmacological and physiological role of serotonin.	05
Q.7	(a)	Explain the mechanism of action, pharmacological actions and toxicity of Local anesthetics.	06
	(b)	Explain the pharmacological actions and physiological role of Angiotensin.	05
	(c)	Write a brief note on the following:  i) Scope of Pharmacology  ii) Drug Nomenclature	05

\*\*\*\*\*\*